RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

10/677,956c
IFW16
10/12/2006

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 10/12/2006
PATENT APPLICATION: US/10/677,956C TIME: 08:05:25

Input Set : F:\16988.ST25.txt

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5 <110> APPLICANT: Zebedee, Suzanne
         Inchauspe, Genevieve
 7
         Nasoff, Marc S.
         Prince, Alfred M.
10 <120> TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING RECOMBINANT VIRAL ANTIGENS
12 <130> FILE REFERENCE: 323-100USD
14 <140> CURRENT APPLICATION NUMBER: 10/677,956C
15 <141> CURRENT FILING DATE: 2003-10-01
17 <150> PRIOR APPLICATION NUMBER: 08/931,855
18 <151> PRIOR FILING DATE: 1997-09-16
20 <150> PRIOR APPLICATION NUMBER: 08/563,733
21 <151> PRIOR FILING DATE: 1995-11-08
23 <150> PRIOR APPLICATION NUMBER: 08/272,271
24 <151> PRIOR FILING DATE: 1994-07-08
26 <150> PRIOR APPLICATION NUMBER: 07/616,369
27 <151> PRIOR FILING DATE: 1990-11-21
29 <150> PRIOR APPLICATION NUMBER: 07/573,643
30 <151> PRIOR FILING DATE: 1990-08-27
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36 <210> SEO ID NO: 1
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39 <213> ORGANISM: Human immunodeficiency virus
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51 cat cag gcc ata tca cct aga act tta aat gca tgg gta aaa gta gta
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52 His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val
53
           15
                               20
55 gaa gag aag get tte age eea gaa gtg ata eee atg ttt tea gea tta
                                                                         147
56 Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu
                           35
59 tca gaa gga gcc acc cca caa gat tta aac acc atg cta aac aca gtg
                                                                         195
60 Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val
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                                           55
63 ggg gga cat caa gca gcc atg caa atg tta aaa gag acc atc aat gag
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64 Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu
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71 gca cca ggc cag atg aga gaa cca agg gga agt gac ata gca gga act 72 Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr	339
72 Ala Plo Gly Gli Met Alg Glu Plo Alg Gly Sel Asp lie Ala Gly Init	
	207
75 act agt acc ctt cag gaa caa ata gga tgg atg aca aat aat cca cct 76 Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro	387
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80 Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn	433
81 125 130 135 140	
83 aaa ata gta aga atg tat agc cct acc agc att ctg gac ata aga caa	483
84 Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln	403
85 145 150 155	
	E 2 1
87 gga cca aag gaa ccc ttt aga gac tat gta gac cgg ttc tat aaa act 88 Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr	531
89 160 165 170	
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91 cta aga gcc gag caa gct tca cag gag gta aaa aat tgg atg aca gaa	579
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95 acc ttg ttg gtc caa aat gcg aac cca gat tgt aag act att tta aaa 96 Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys	027
97 190 195 200	
99 gca ttg gga cca gcg gct aca cta gaa gaa atg atg aca gca tgt cag	675
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101 205 210 215 220	
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148				100					105					110			
151	Gln	Glu	Gln	Ile	Gly	Trp	Met	Thr	Asn	Asn	Pro	Pro	Ile	Pro	Val	Gly	
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155	Glu	Ile	Tyr	Lys	Arg	Trp	Ile	Ile	Leu	Gly	Leu	Asn	Lys	Ile	Val	Arg	
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159	Met	Tyr	Ser	Pro	Thr	Ser	Ile	Leu	Asp	Ile	Arg	Gln	Gly	Pro	Lys	Glu	
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163	Pro	Phe	Arq	Asp	Tyr	Val	Asp	Arg	Phe	Tyr	Lvs	Thr	Leu	Arq	Ala	Glu	
164				•	165		-	,		170	_				175		
	Gln	Ala	Ser	Gln	Glu	Val	Lvs	Asn	Trp		Thr	Glui	Thr	Leu		Val	
168				180			-7-		185					190			
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172	0211	11011	195		110	1101	Cys	200	****	110	шси	נעם	205	D Cu	OLY	110	
	Δla	Δla		T.e.11	G111	Glu	Mot	Met	Thr	ΔΊα	Cvc	Gln		t/all	G1 17	G1 v	
176	Aια	210	1111	пси	Olu	Giu	215	Mec	1111	ALG	Cys	220	Gry	Val	Gry	GIY	
	Dro		λan	Gln.	Gl n	T 011		Ser	T 011	Two	C1++		Tira	C1.,	T	T 011	
	225		ASII	Gin	GIII	230	nea	ser	ьеи	пр	235	Cys	пÃр	GIY	цуѕ		
			Ф~	πh∽	Co~		T	П~~	7 ~~	C1		~1	77: ~	T	77.	240	
	vai	Cys	ıyı	1111		vai	гуѕ	Trp	ASII		PIO	GIY	птѕ	ьуѕ		Arg	
184	77.7	T 0			245					250					255		
	Val		30 TI		_												
		0 > SI															
		1 > L			95												
		2 > T															
					Huma	an it	nmun	odef	clei	cy v	rus	5					
		0 > F															
		1 > N							-	•							
		2 > L() ('	789)										
		0 > S1															
	agga	agggi	ctt t	tcai												g gta	51
203						: Pro	o Ile	e Val		ı Ası	ı Ile	e Glr	ı Gly		n Met	: Val	
204					1				5					10			
								act									99
207	His	Gln	Ala	Ile	Ser	Pro	Arg	Thr	Leu	Asn	Ala	\mathtt{Trp}	Val	Lys	Val	Val	
208								~ ~					2 -				
			15					20					25				
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	gaa	gag	aag										ttt				147
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Input Set : F:\16988.ST25.txt

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22			95					100					105				
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	0 acc																627
	1 Thr		Leu	vai	GIN	Asn		Asn	Pro	Asp	Cys	_	Thr	тте	ьeu	ьуs	
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	4 gca																675
	5 Ala	Leu	GIY	Pro	Ala		Inr	ьeu	GIU	GIU		мет	THE	Ala	Cys		
	6 205	~+ ^	~~~	~~~	~~~	210	a a t			200	215	+	++'-	+~~	~~~	220	722
	B gga	_								_							723
26	9 Gly	vai	GIY	Gry	225	ьуѕ	ASII	GIII	GIII	230	neu	ASII	ьеu	пр	235	Cys	
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	2 aaa 3 Lys					_				_							,,,
26	_	Gry	пуз	240	110	Cys	1 <b>y</b> 1	1111	245	val	БуБ	ııp	Abii	250	110	Gry	
	cat	aad	aca		att	tta	taat	- a a	243				•	250			795
	7 His	_	-	_	_	-	cuu	Juu									,,,,
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	Pro		7 an	Cln	Cln.	71 ***		Nan	T 011	Ten	C111		Tira	C3	T 1.40	T 011	
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/12/2006 PATENT APPLICATION: US/10/677,956C TIME: 08:05:26

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Output Set: N:\CRF4\10122006\J677956C.raw

## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

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DATE: 10/12/2006

PATENT APPLICATION: US/10/677,956C

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Input Set : F:\16988.ST25.txt